

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031423\
 Data File : BF132793.D
 Acq On : 14 Mar 2023 23:06
 Operator : CG\JU
 Sample : 01905-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UNION-1

Quant Time: Mar 15 02:31:14 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 14 15:35:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

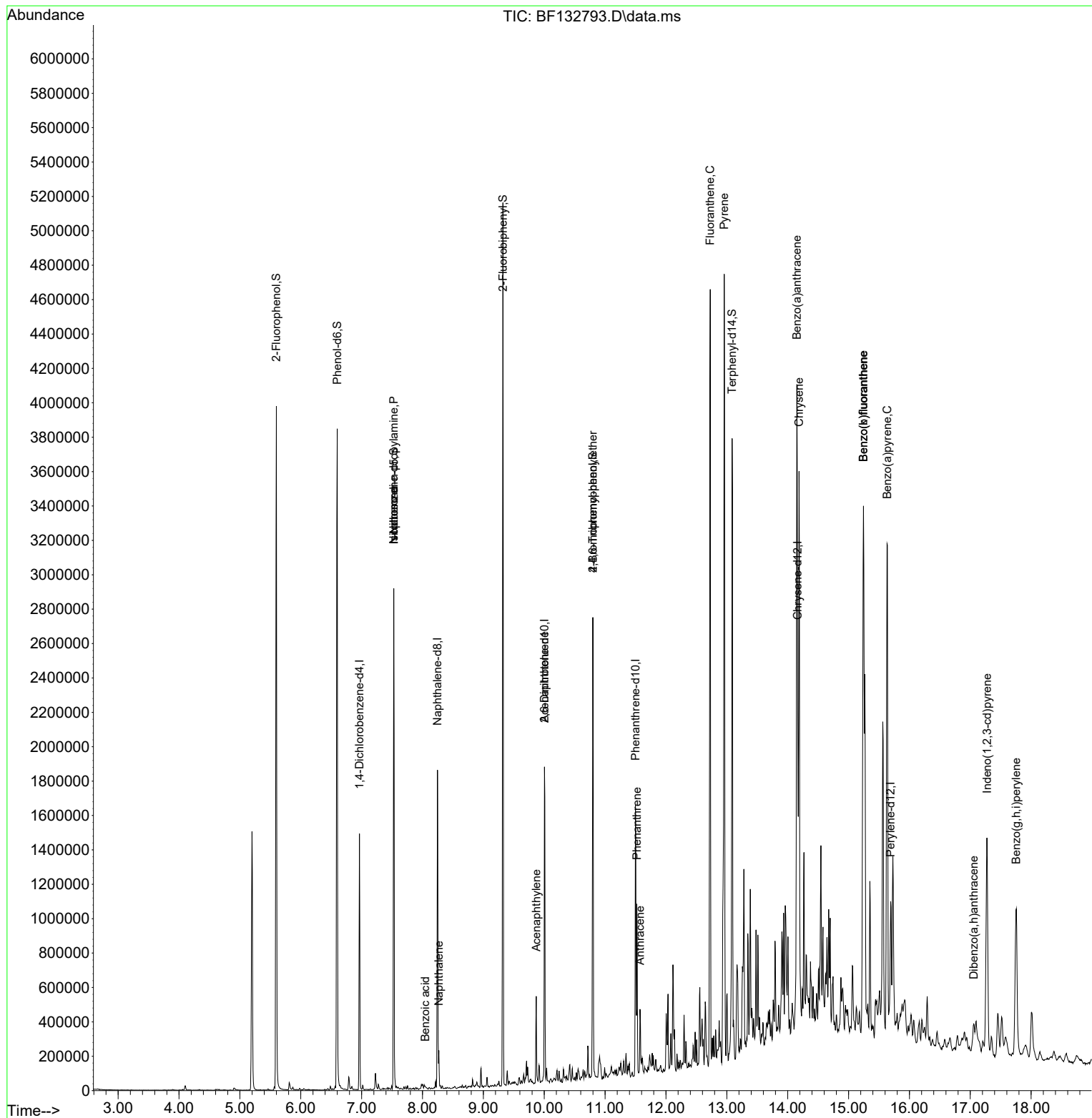
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	210806	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	759215	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	376148	20.000	ng	0.00
64) Phenanthrene-d10	11.498	188	612018	20.000	ng	0.00
76) Chrysene-d12	14.163	240	372391	20.000	ng	0.00
86) Perylene-d12	15.692	264	354616	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.598	112	1180777	90.907	ng	0.00
7) Phenol-d6	6.598	99	1486175	87.671	ng	0.00
23) Nitrobenzene-d5	7.528	82	937518	58.587	ng	-0.01
42) 2,4,6-Tribromophenol	10.798	330	326022	80.257	ng	-0.01
45) 2-Fluorobiphenyl	9.322	172	1499489	60.700	ng	0.00
79) Terphenyl-d14	13.086	244	1356398	61.584	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.528	70	121946	11.689	ng	# 74
25) Isophorone	7.528	82	937508	30.558	ng	# 67
31) Naphthalene	8.269	128	78405	2.017	ng	98
32) Benzoic acid	8.045	122	1774	4.010	ng	# 52
49) Acenaphthylene	9.869	152	190272	5.296	ng	100
51) 2,6-Dinitrotoluene	10.004	165	51982	8.334	ng	# 22
67) 4-Bromophenyl-phenylether	10.798	248	20474	2.957	ng	# 1
71) Phenanthrene	11.522	178	370185	11.676	ng	99
72) Anthracene	11.575	178	150360	4.605	ng	98
75) Fluoranthene	12.727	202	1950165	56.265	ng	99
78) Pyrene	12.957	202	2105892	62.200	ng	99
81) Benzo(a)anthracene	14.151	228	1581726	56.768	ng	95
83) Chrysene	14.186	228	1287625	49.419	ng	98
87) Indeno(1,2,3-cd)pyrene	17.274	276	875260	37.668	ng	97
88) Benzo(b)fluoranthene	15.245	252	2848911	119.880	ng	97
89) Benzo(k)fluoranthene	15.245	252	2848911	122.490	ng	97
90) Benzo(a)pyrene	15.633	252	1530064	68.793	ng	95
91) Dibenzo(a,h)anthracene	17.057	278	140942	7.445	ng	97
92) Benzo(g,h,i)perylene	17.756	276	798584	37.684	ng	97

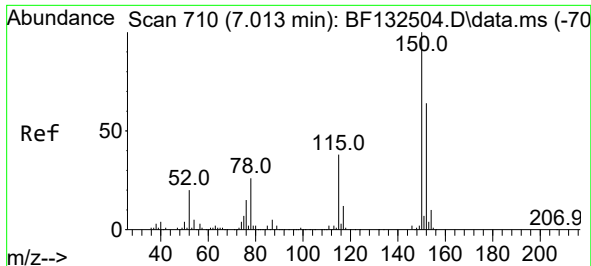
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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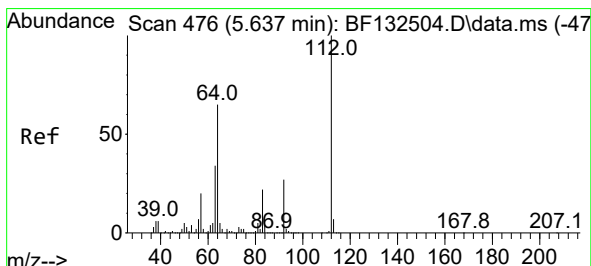
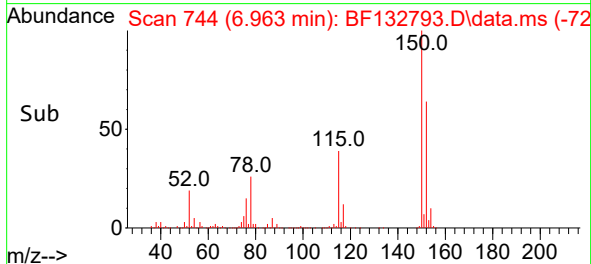
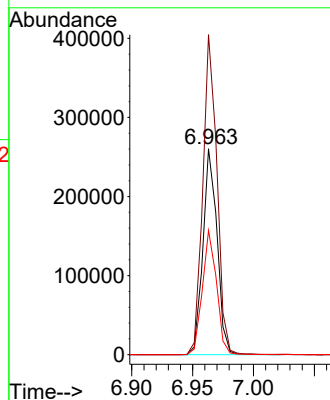
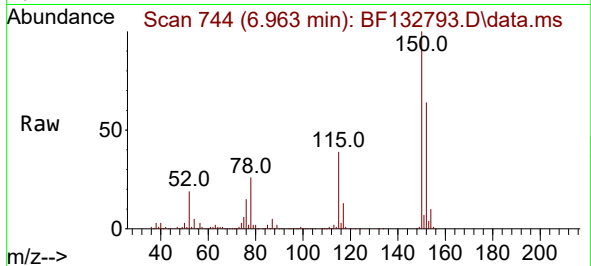




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 710
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

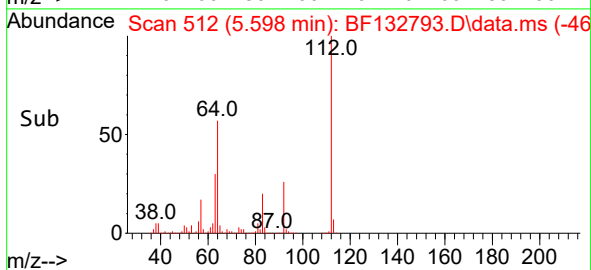
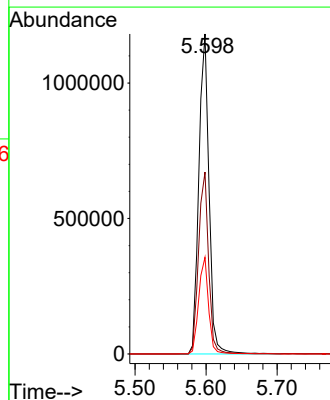
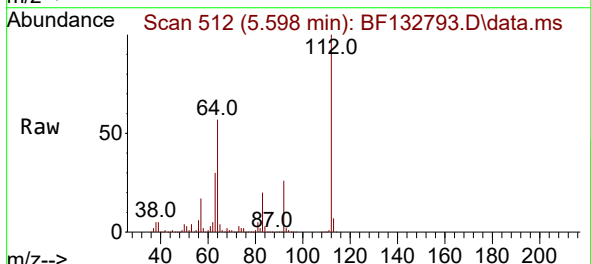
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BNA_F
ClientSampleId :
UNION-1

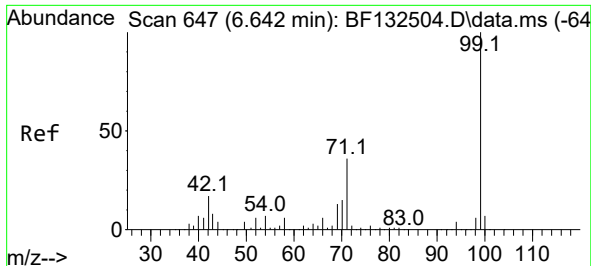
Tgt Ion:152 Resp: 210806
Ion Ratio Lower Upper
152 100
150 155.4 125.4 188.2
115 60.3 47.8 71.6



#5
2-Fluorophenol
Concen: 90.907 ng
RT: 5.598 min Scan# 512
Delta R.T. 0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:112 Resp: 1180777
Ion Ratio Lower Upper
112 100
64 56.9 51.6 77.4
63 30.2 27.4 41.2

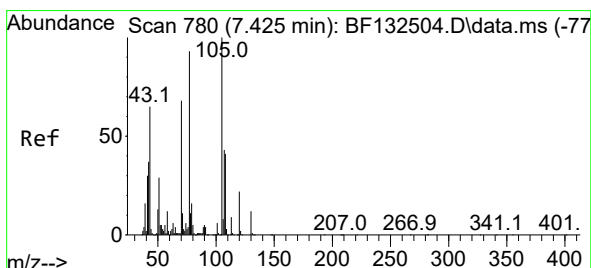
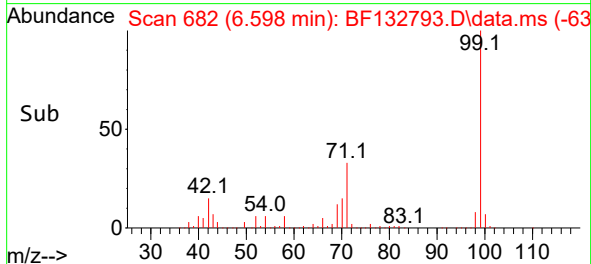
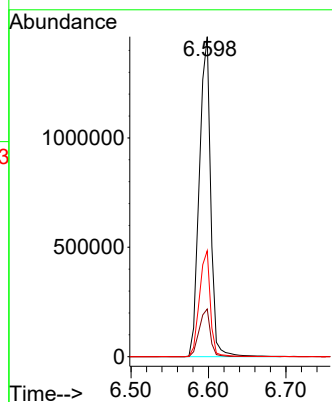
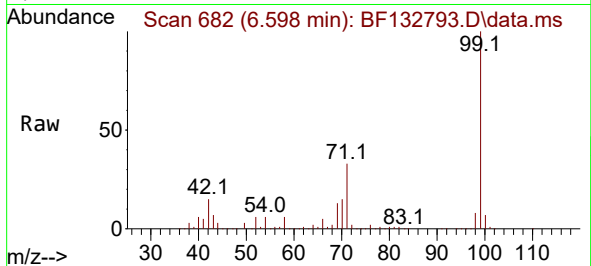




#7
Phenol-d6
Concen: 87.671 ng
RT: 6.598 min Scan# 61
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

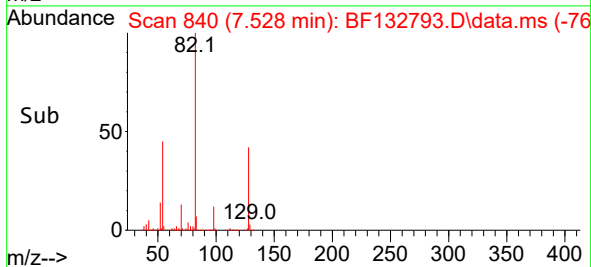
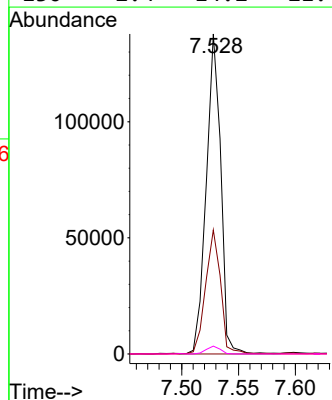
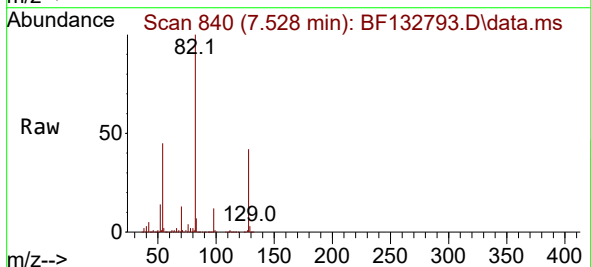
Instrument :
BNA_F
ClientSampleId :
UNION-1

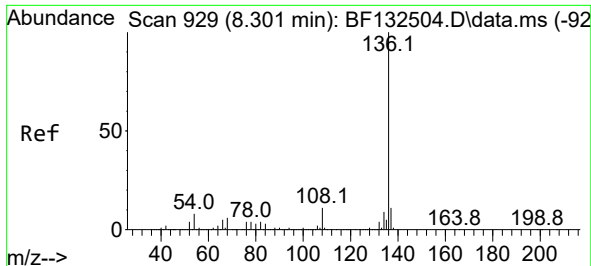
Tgt Ion: 99 Resp: 1486175
Ion Ratio Lower Upper
99 100
42 14.9 13.9 20.9
71 33.1 28.5 42.7



#19
n-Nitroso-di-n-propylamine
Concen: 11.689 ng
RT: 7.528 min Scan# 840
Delta R.T. 0.147 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion: 70 Resp: 121946
Ion Ratio Lower Upper
70 100
42 38.7 44.1 66.1#
101 0.0 7.4 11.2#
130 2.4 14.2 21.4#

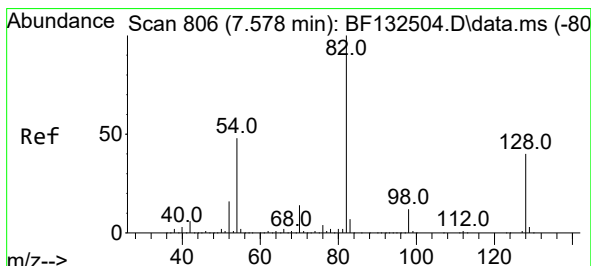
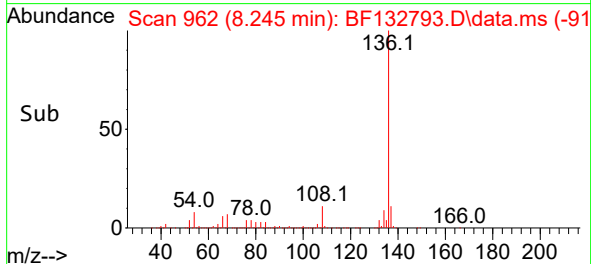
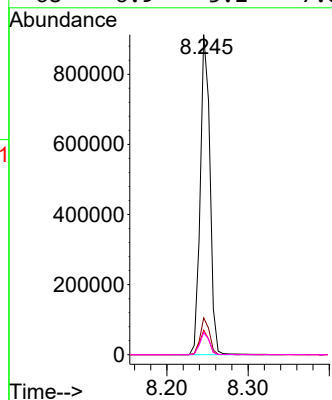
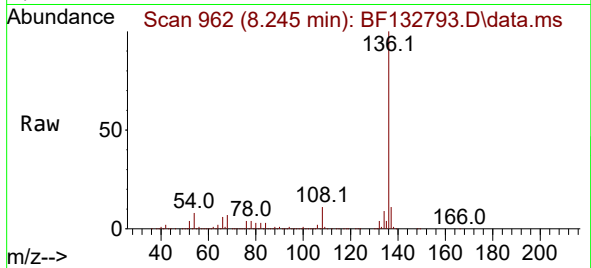




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

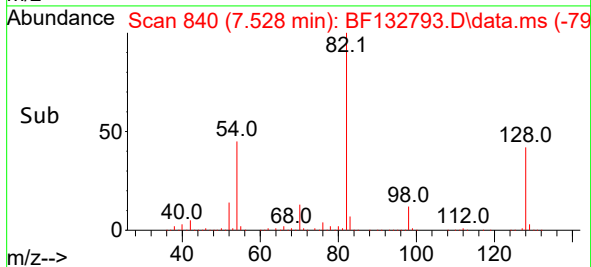
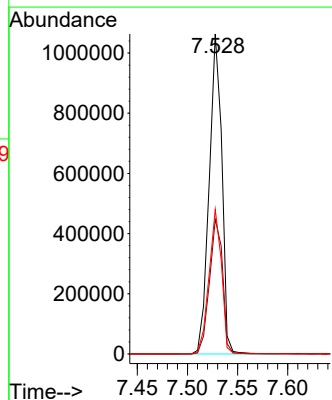
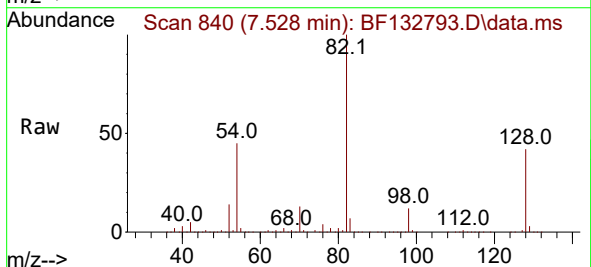
Instrument :
BNA_F
ClientSampleId :
UNION-1

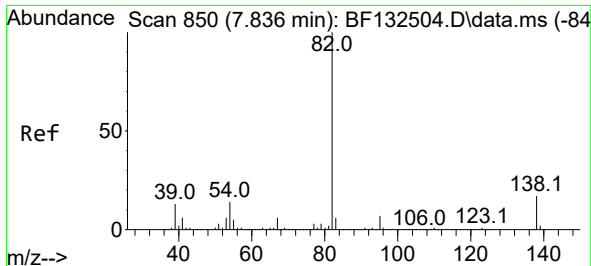
Tgt Ion:136 Resp: 759215
Ion Ratio Lower Upper
136 100
137 11.5 8.9 13.3
54 7.7 6.2 9.4
68 6.9 5.2 7.8



#23
Nitrobenzene-d5
Concen: 58.587 ng
RT: 7.528 min Scan# 840
Delta R.T. -0.012 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion: 82 Resp: 937518
Ion Ratio Lower Upper
82 100
128 42.1 32.2 48.2
54 45.1 38.4 57.6

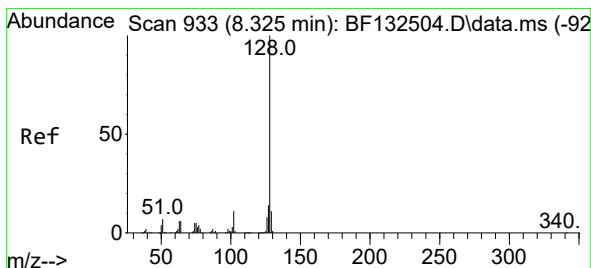
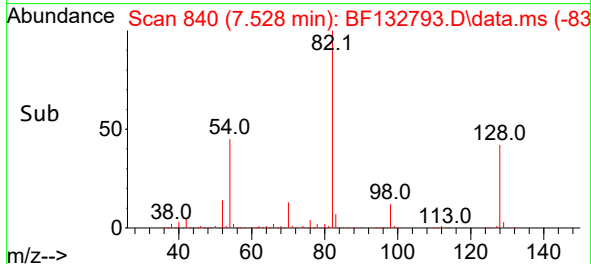
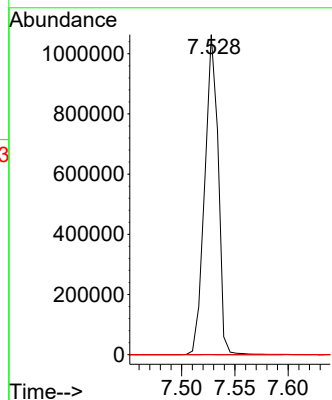
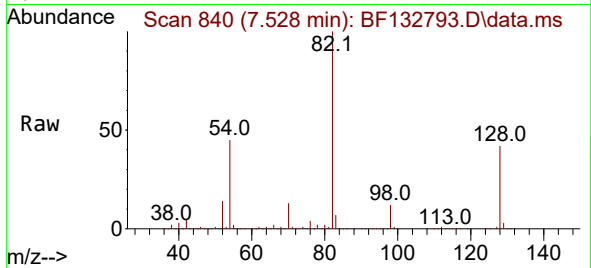




#25
Isophorone
Concen: 30.558 ng
RT: 7.528 min Scan# 84
Delta R.T. -0.265 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

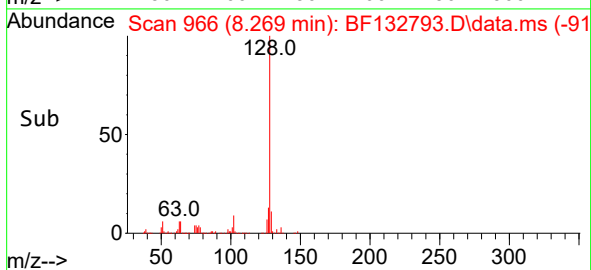
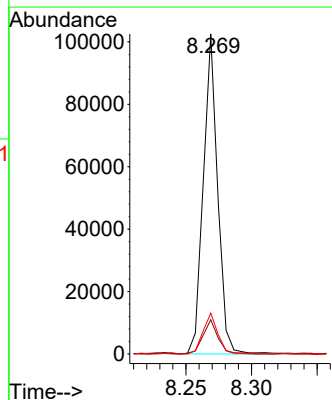
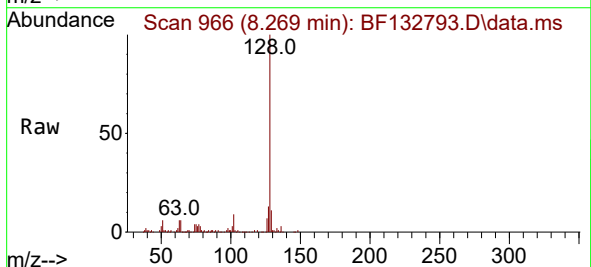
Instrument :
BNA_F
ClientSampleId :
UNION-1

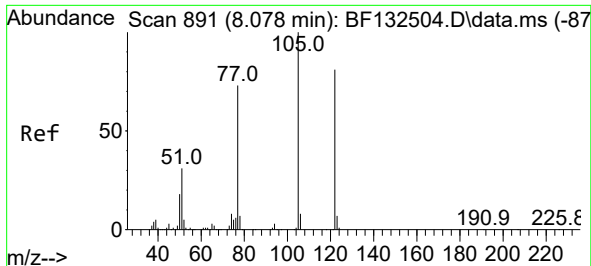
Tgt Ion: 82 Resp: 937508
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 13.3 19.9#



#31
Naphthalene
Concen: 2.017 ng
RT: 8.269 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:128 Resp: 78405
Ion Ratio Lower Upper
128 100
129 10.7 9.1 13.7
127 12.7 11.0 16.6

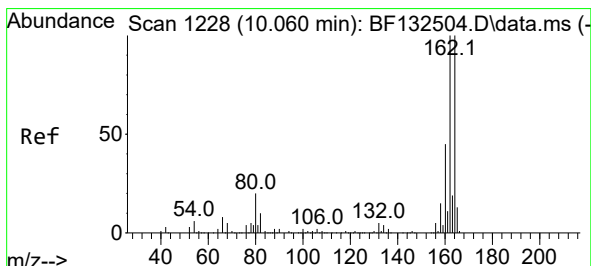
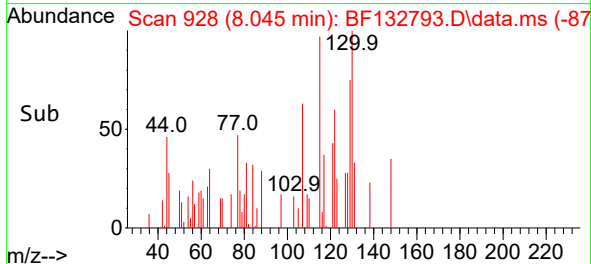
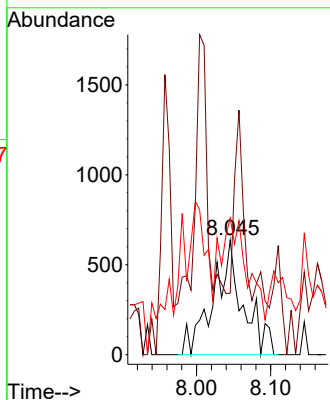
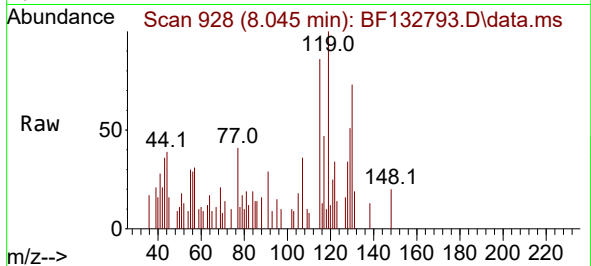




#32
Benzoic acid
Concen: 4.010 ng
RT: 8.045 min Scan# 91
Delta R.T. 0.012 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

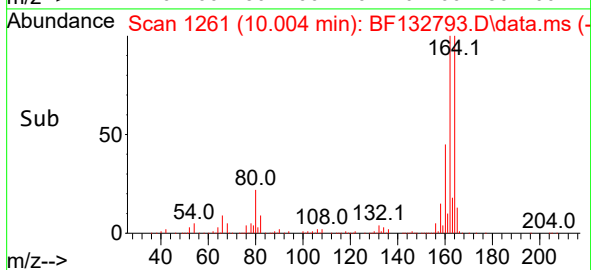
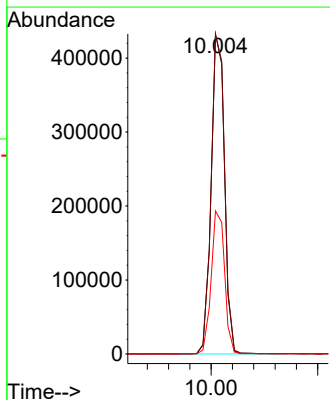
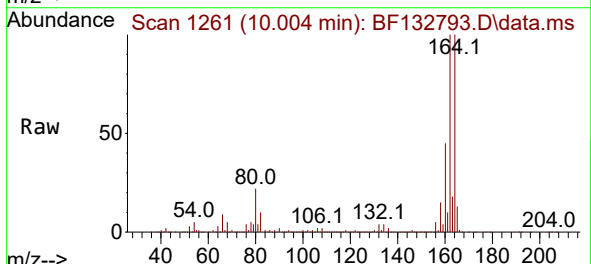
Instrument :
BNA_F
ClientSampleId :
UNION-1

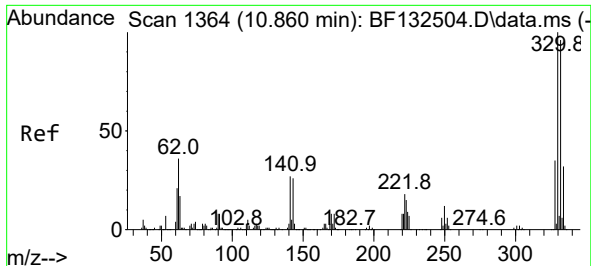
Tgt Ion:122 Resp: 1774
Ion Ratio Lower Upper
122 100
105 53.7 102.6 142.6#
77 119.5 70.2 110.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1261
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:164 Resp: 376148
Ion Ratio Lower Upper
164 100
162 99.9 79.8 119.8
160 44.7 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 80.257 ng

RT: 10.798 min Scan# 1145

Delta R.T. -0.012 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

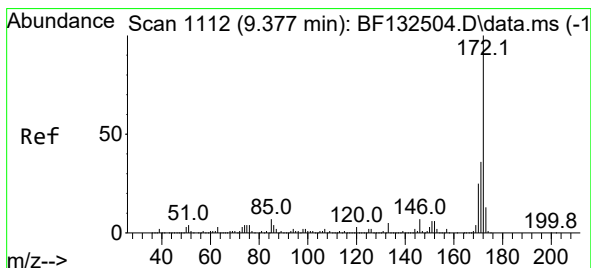
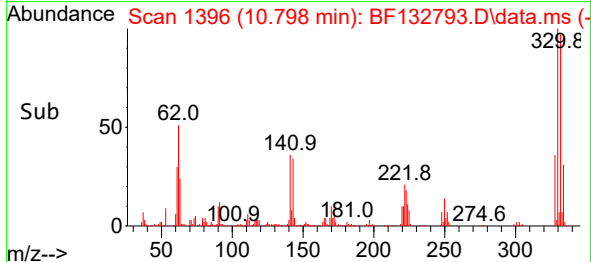
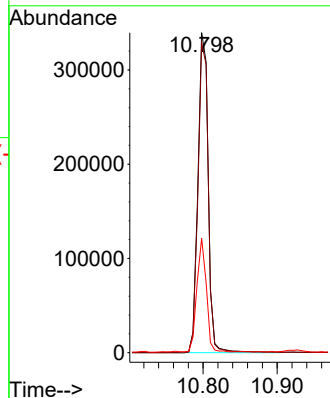
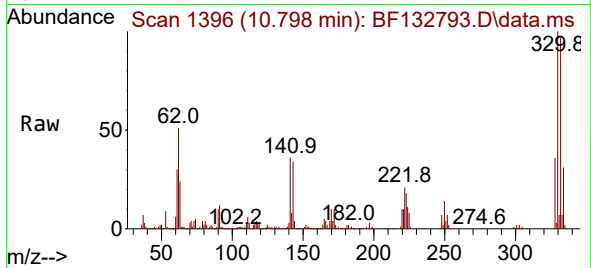
Tgt Ion:330 Resp: 326022

Ion Ratio Lower Upper

330 100

332 97.1 76.2 114.4

141 32.4 28.4 42.6



#45

2-Fluorobiphenyl

Concen: 60.700 ng

RT: 9.322 min Scan# 1145

Delta R.T. -0.006 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

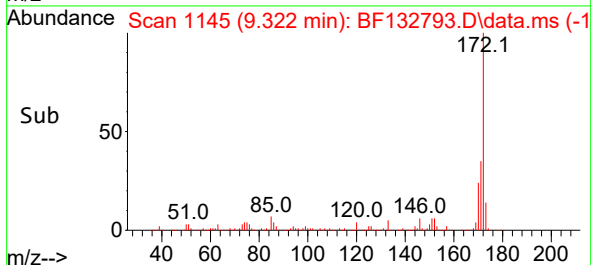
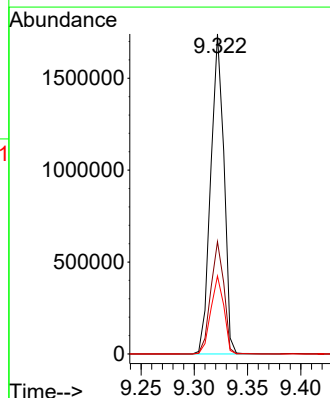
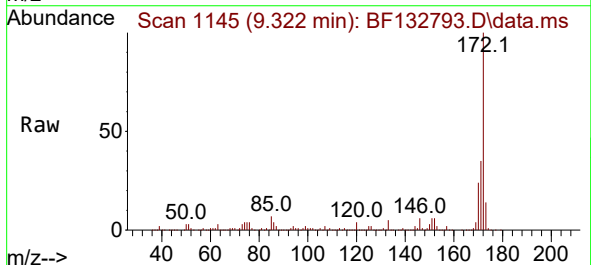
Tgt Ion:172 Resp: 1499489

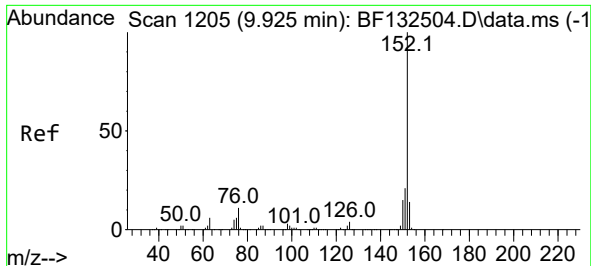
Ion Ratio Lower Upper

172 100

171 35.1 28.8 43.2

170 24.4 19.7 29.5





#49

Acenaphthylene

Concen: 5.296 ng

RT: 9.869 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

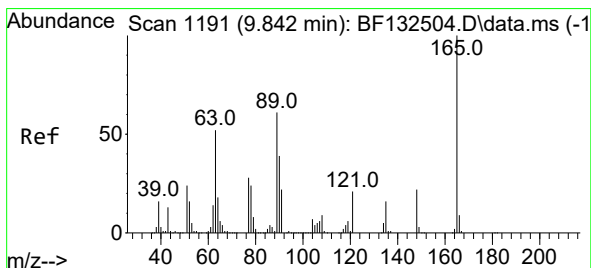
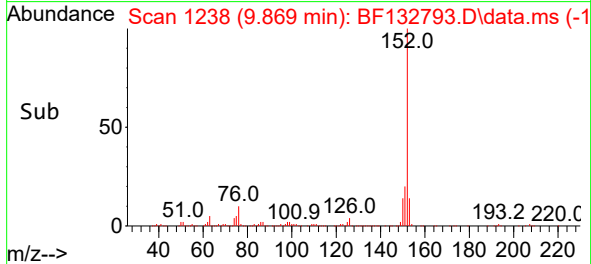
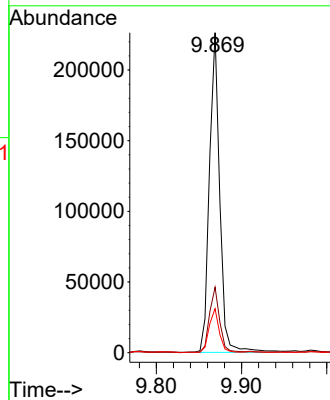
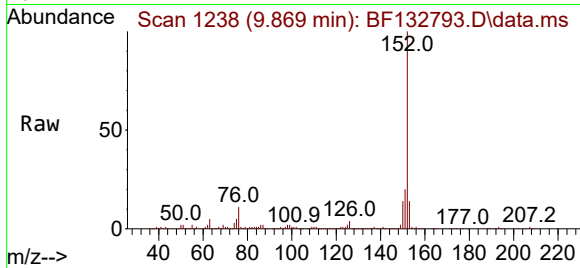
Tgt Ion:152 Resp: 190272

Ion Ratio Lower Upper

152 100

151 20.5 16.4 24.6

153 13.7 11.0 16.6



#51

2,6-Dinitrotoluene

Concen: 8.334 ng

RT: 10.004 min Scan# 1261

Delta R.T. 0.206 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

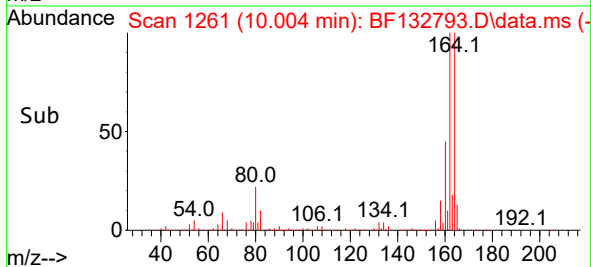
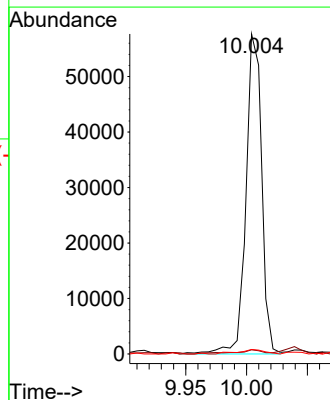
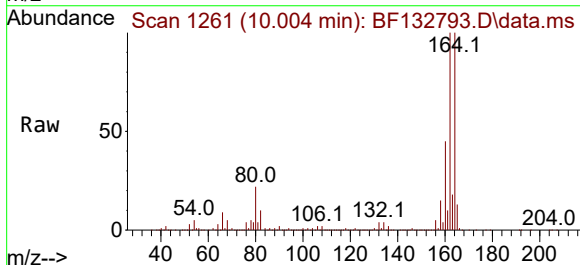
Tgt Ion:165 Resp: 51982

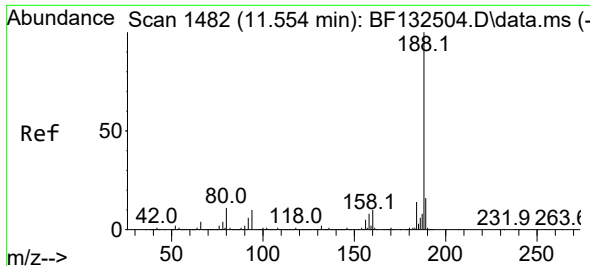
Ion Ratio Lower Upper

165 100

63 1.3 47.3 70.9#

89 1.4 48.9 73.3#

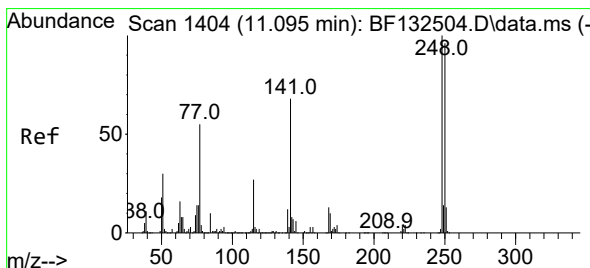
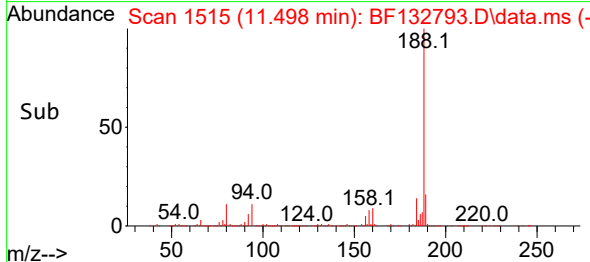
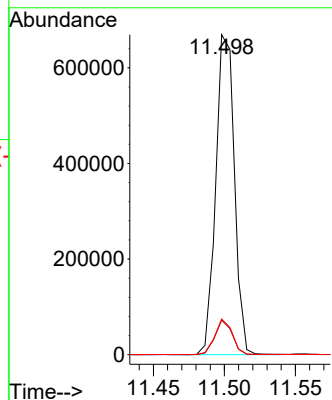
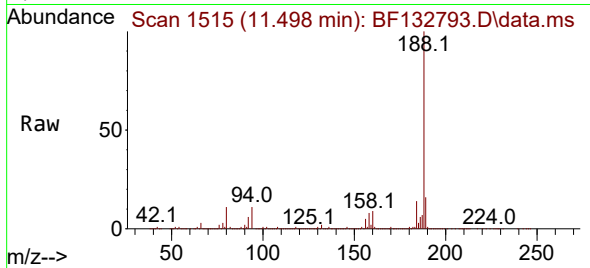




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.498 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

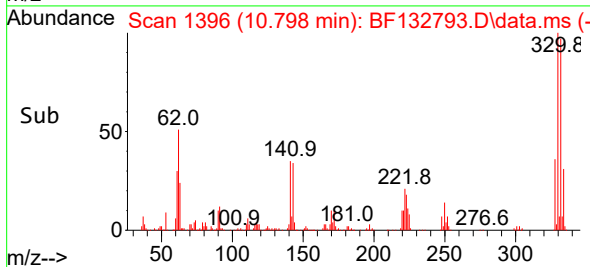
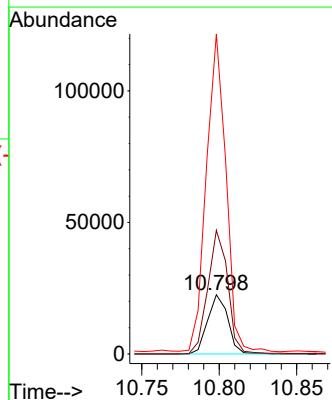
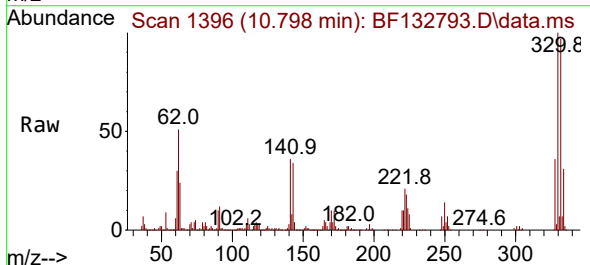
Instrument :
BNA_F
ClientSampleId :
UNION-1

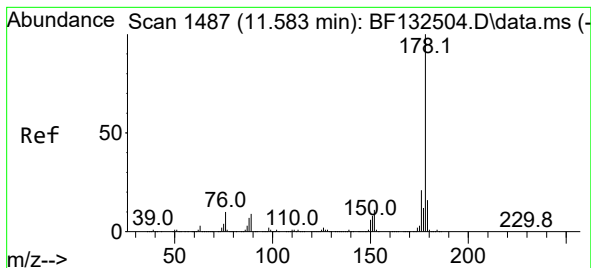
Tgt Ion:188 Resp: 612018
Ion Ratio Lower Upper
188 100
94 10.8 8.3 12.5
80 11.2 8.7 13.1



#67
4-Bromophenyl-phenylether
Concen: 2.957 ng
RT: 10.798 min Scan# 1396
Delta R.T. -0.247 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:248 Resp: 20474
Ion Ratio Lower Upper
248 100
250 208.7 77.0 115.4#
141 539.8 54.2 81.2#





#71

Phenanthrene

Concen: 11.676 ng

RT: 11.522 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

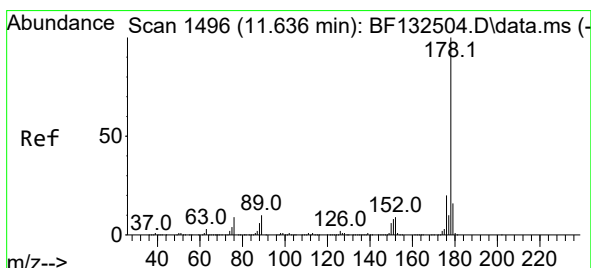
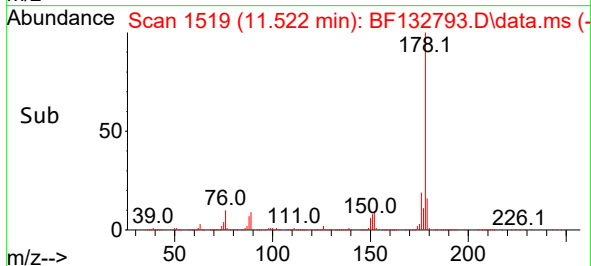
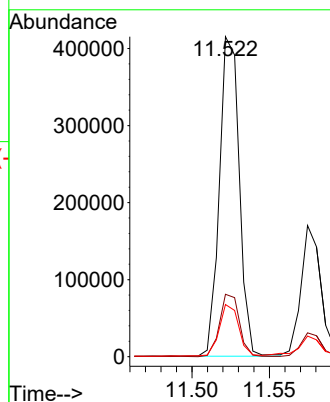
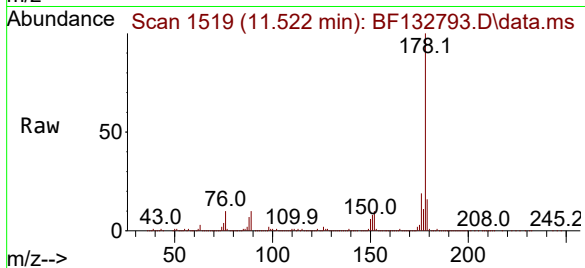
Tgt Ion:178 Resp: 370185

Ion Ratio Lower Upper

178 100

176 19.5 16.5 24.7

179 16.3 13.0 19.6



#72

Anthracene

Concen: 4.605 ng

RT: 11.575 min Scan# 1528

Delta R.T. -0.012 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

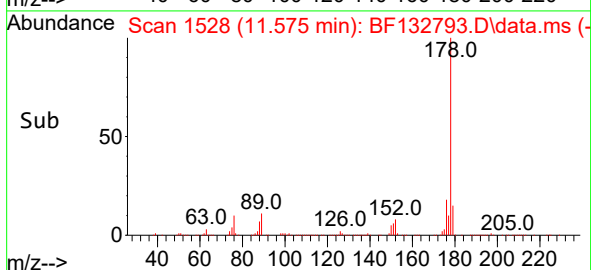
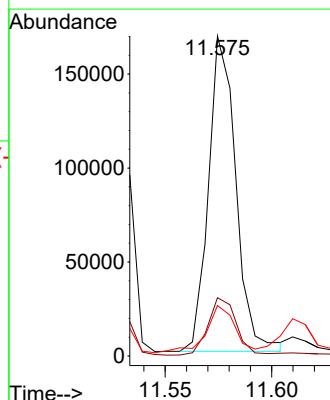
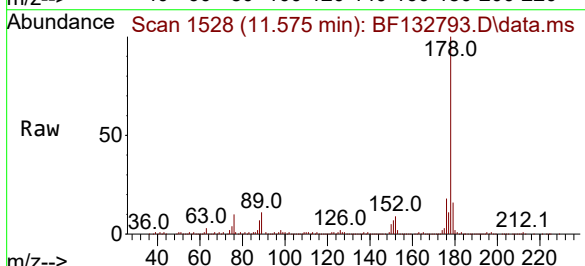
Tgt Ion:178 Resp: 150360

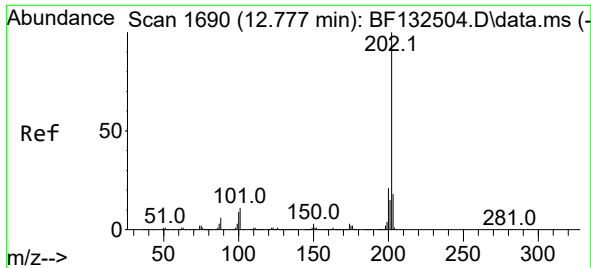
Ion Ratio Lower Upper

178 100

176 18.2 15.6 23.4

179 15.8 12.5 18.7

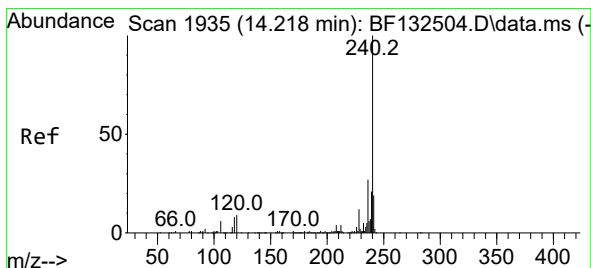
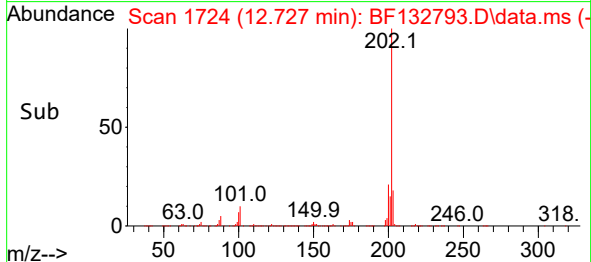
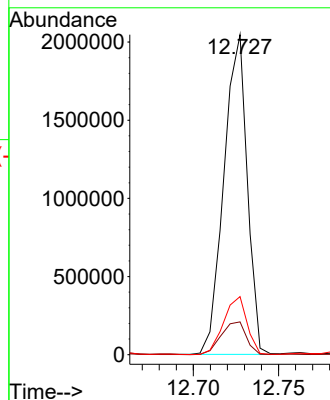
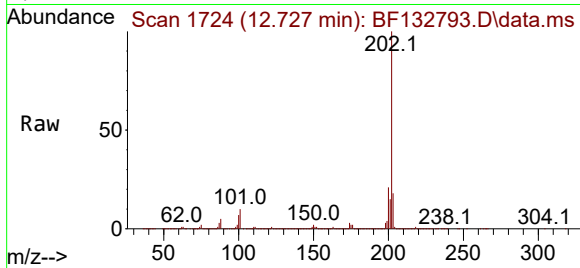




#75
Fluoranthene
Concen: 56.265 ng
RT: 12.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

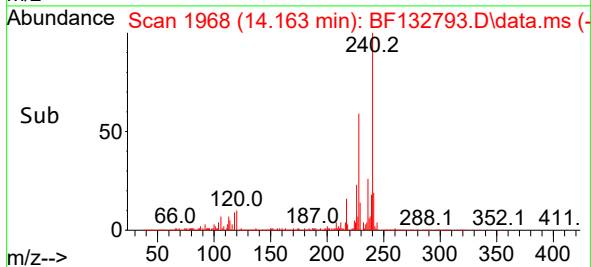
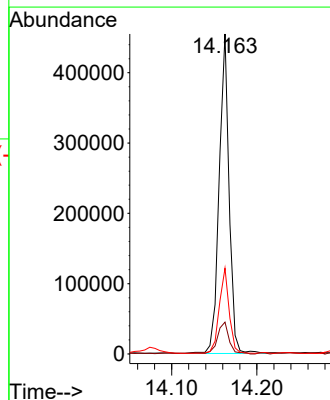
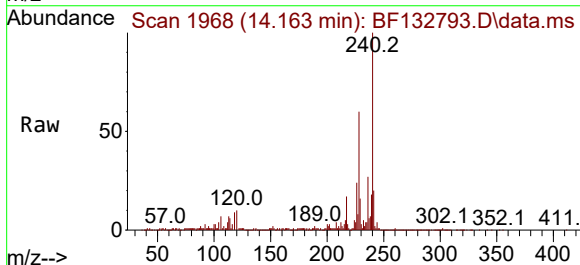
Instrument :
BNA_F
ClientSampleId :
UNION-1

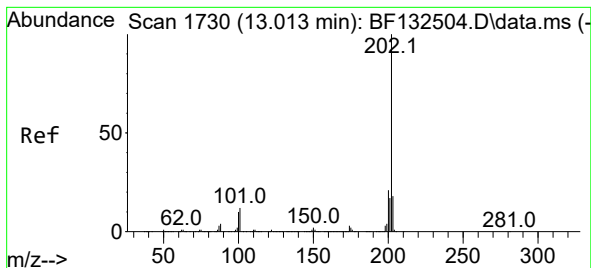
Tgt Ion:202 Resp: 1950165
Ion Ratio Lower Upper
202 100
101 10.3 0.0 31.4
203 18.2 0.0 38.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.163 min Scan# 1968
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:240 Resp: 372391
Ion Ratio Lower Upper
240 100
120 9.9 7.2 10.8
236 26.8 21.8 32.6





#78

Pyrene

Concen: 62.200 ng

RT: 12.957 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

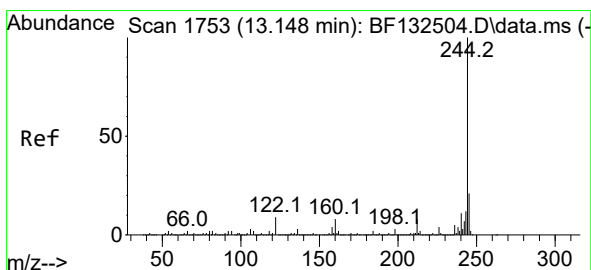
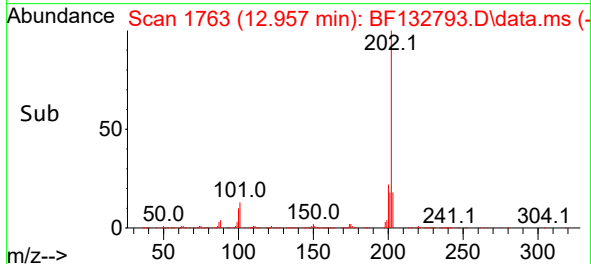
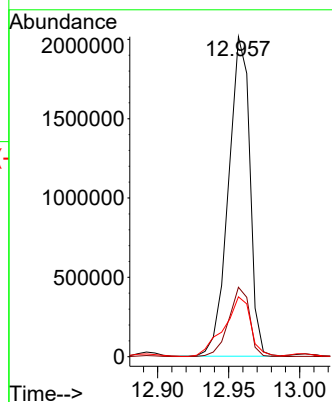
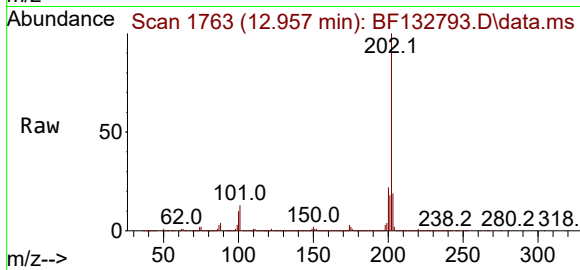
Tgt Ion:202 Resp: 2105892

Ion Ratio Lower Upper

202 100

200 21.7 17.1 25.7

203 18.7 14.6 21.8



#79

Terphenyl-d14

Concen: 61.584 ng

RT: 13.086 min Scan# 1785

Delta R.T. -0.006 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

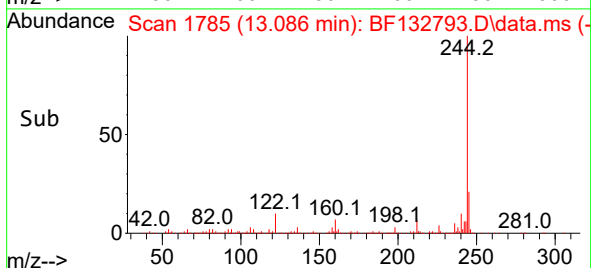
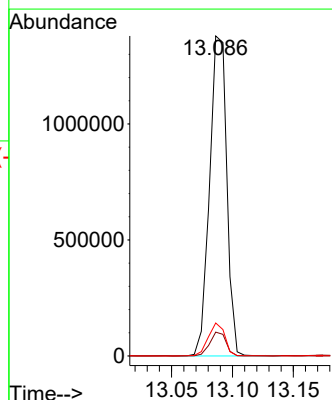
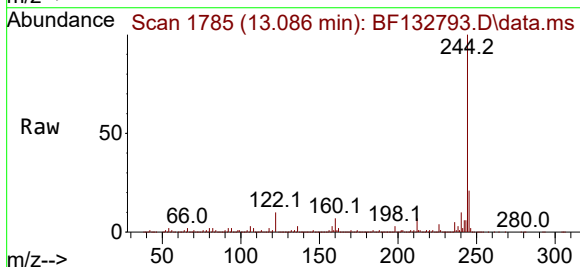
Tgt Ion:244 Resp: 1356398

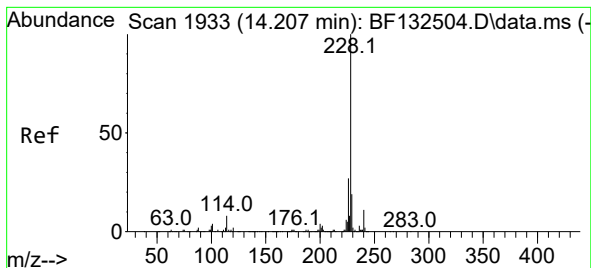
Ion Ratio Lower Upper

244 100

212 7.5 6.5 9.7

122 10.3 7.5 11.3





#81

Benzo(a)anthracene

Concen: 56.768 ng

RT: 14.151 min Scan# 1966

Delta R.T. -0.000 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

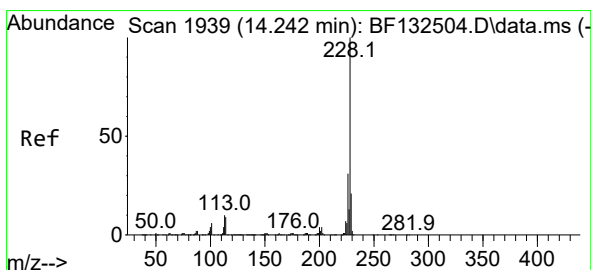
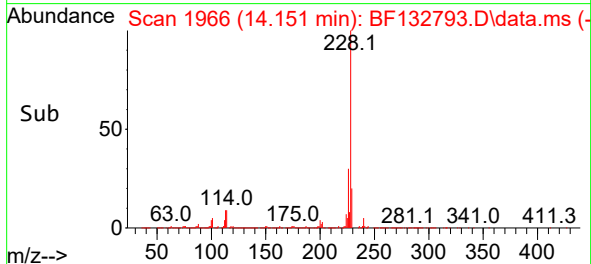
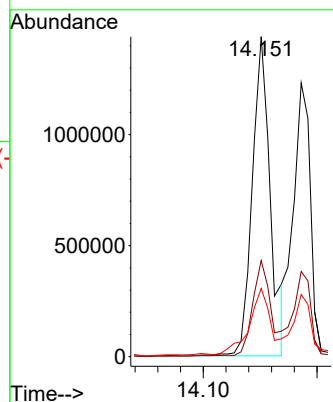
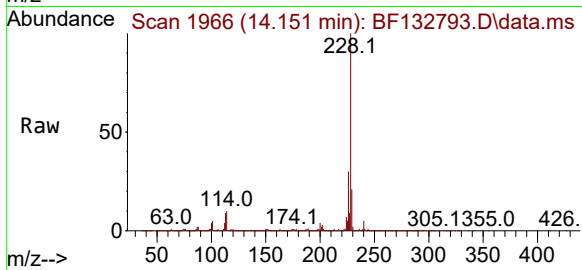
Tgt Ion:228 Resp: 1581726

Ion Ratio Lower Upper

228 100

226 30.1 21.7 32.5

229 21.3 15.4 23.2



#83

Chrysene

Concen: 49.419 ng

RT: 14.186 min Scan# 1972

Delta R.T. -0.006 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

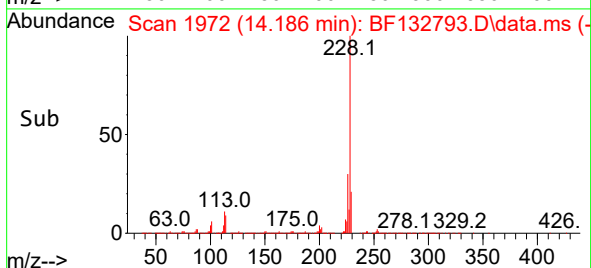
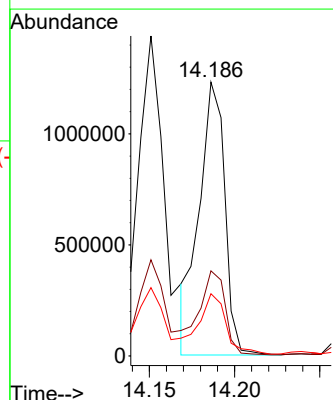
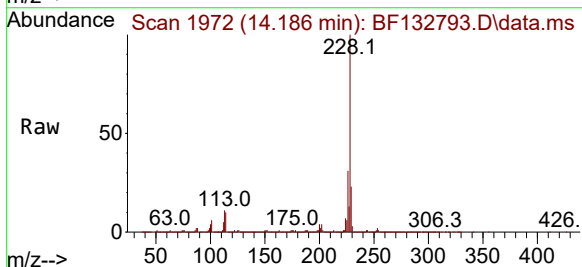
Tgt Ion:228 Resp: 1287625

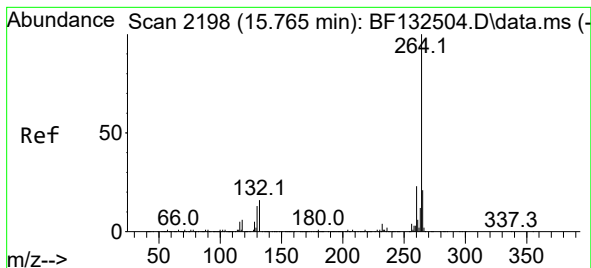
Ion Ratio Lower Upper

228 100

226 31.1 25.0 37.6

229 22.7 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.692 min Scan# 2198

Delta R.T. -0.000 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

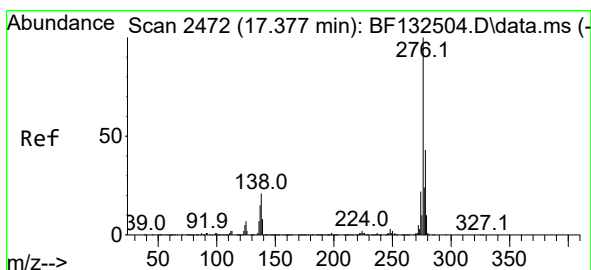
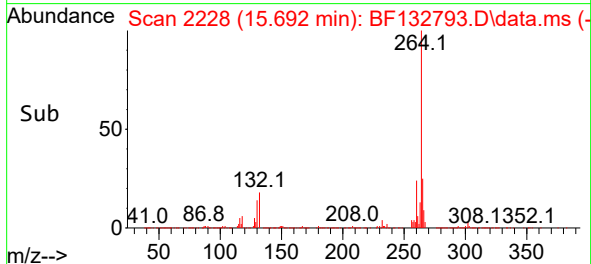
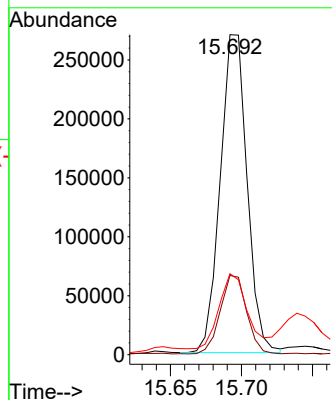
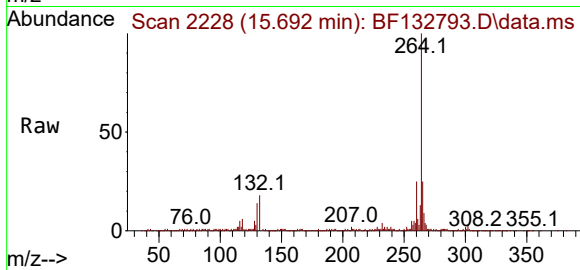
Tgt Ion:264 Resp: 354616

Ion Ratio Lower Upper

264 100

260 24.8 18.8 28.2

265 25.3 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 37.668 ng

RT: 17.274 min Scan# 2497

Delta R.T. -0.000 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

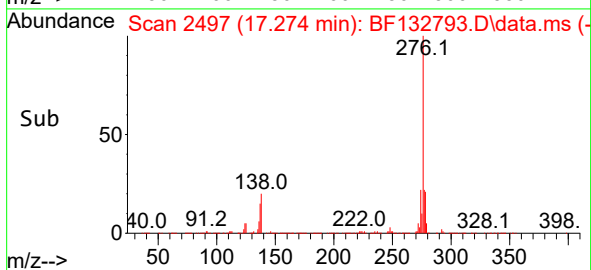
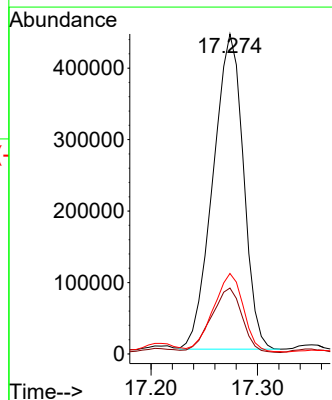
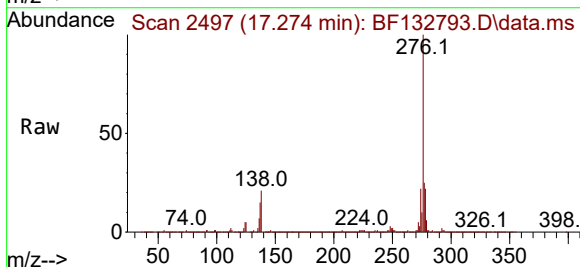
Tgt Ion:276 Resp: 875260

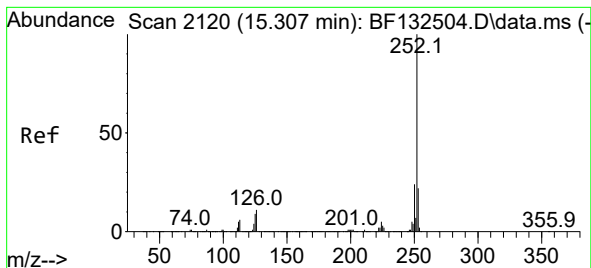
Ion Ratio Lower Upper

276 100

138 20.7 19.0 28.4

277 24.7 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 119.880 ng

RT: 15.245 min Scan# 2112

Delta R.T. 0.012 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

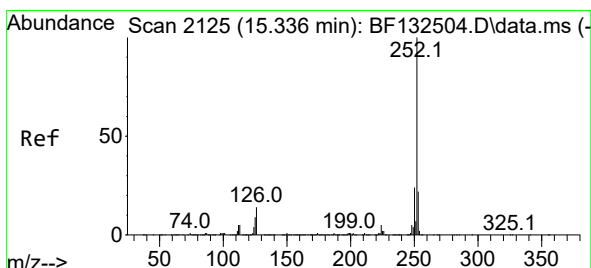
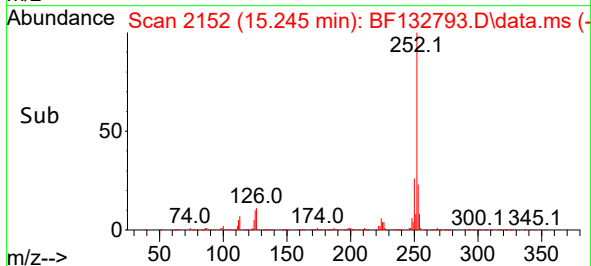
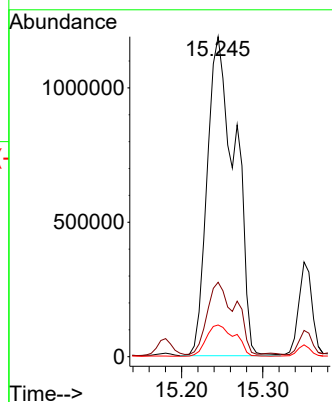
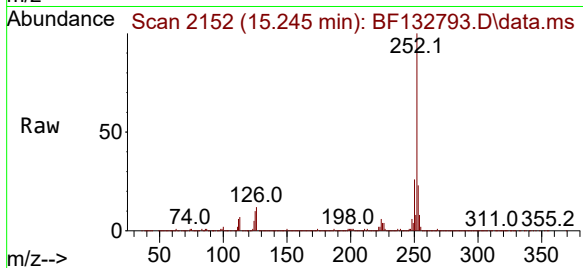
Tgt Ion:252 Resp: 2848911

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 9.9 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 122.490 ng

RT: 15.245 min Scan# 2152

Delta R.T. -0.024 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

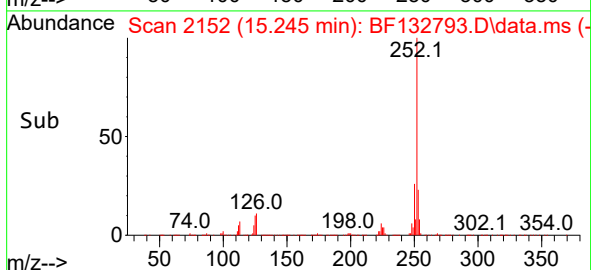
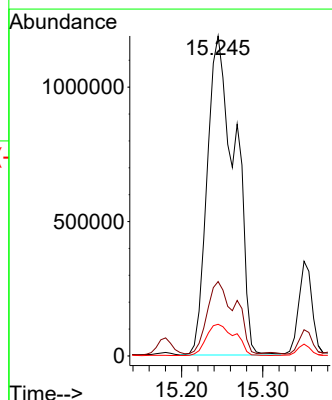
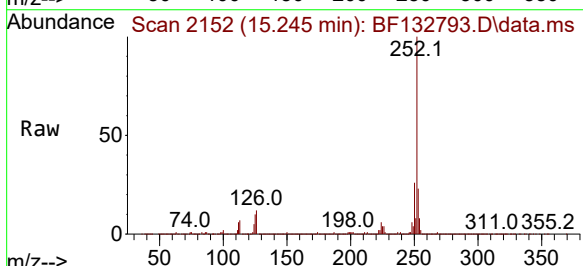
Tgt Ion:252 Resp: 2848911

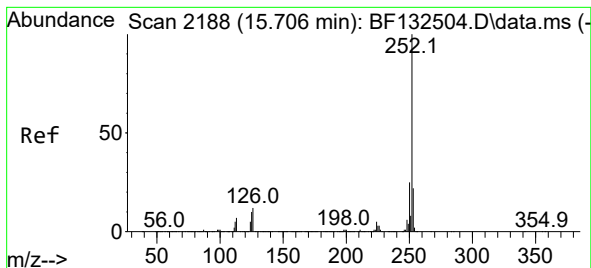
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 9.9 7.2 10.8





#90

Benzo(a)pyrene

Concen: 68.793 ng

RT: 15.633 min Scan# 2188

Delta R.T. 0.006 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

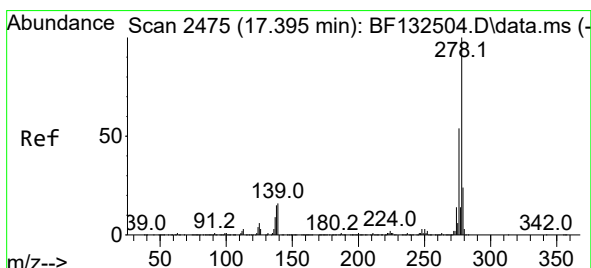
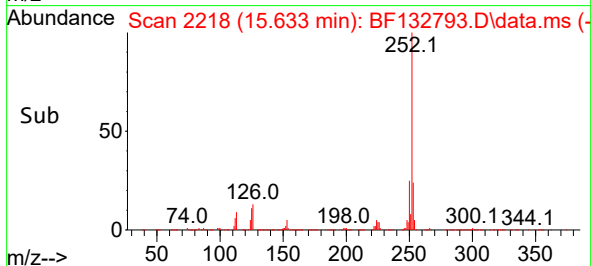
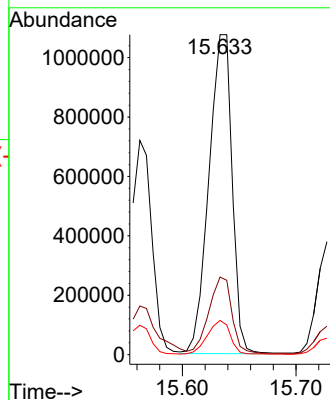
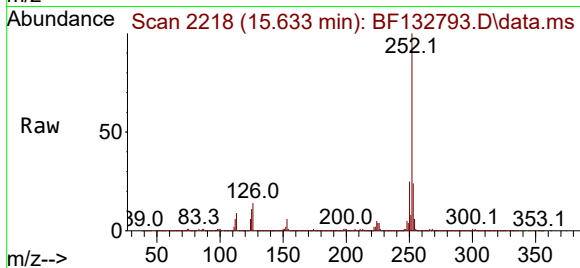
Tgt Ion:252 Resp: 1530064

Ion Ratio Lower Upper

252 100

253 24.3 17.2 25.8

125 10.7 8.0 12.0



#91

Dibenzo(a,h)anthracene

Concen: 7.445 ng

RT: 17.057 min Scan# 2460

Delta R.T. -0.229 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

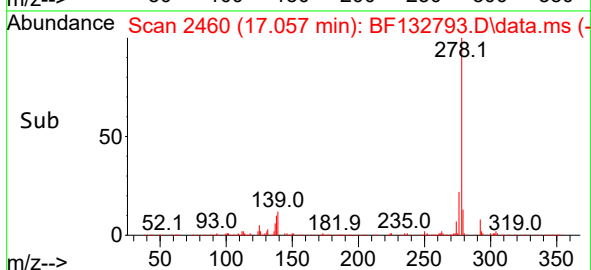
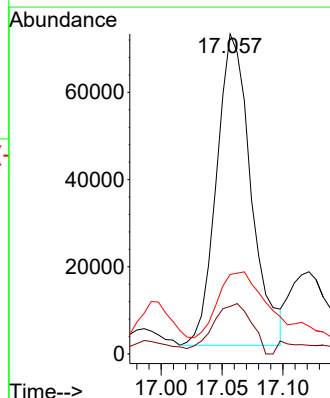
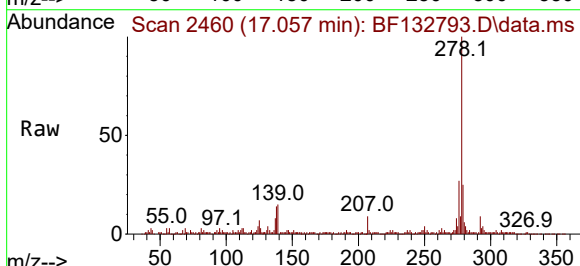
Tgt Ion:278 Resp: 140942

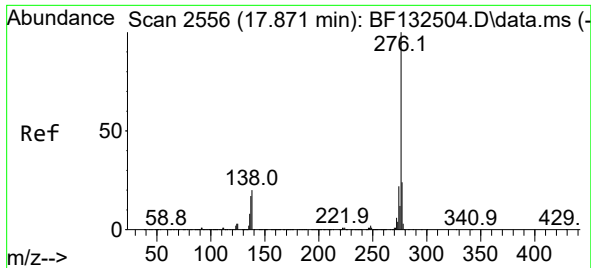
Ion Ratio Lower Upper

278 100

139 14.8 13.0 19.4

279 24.9 19.0 28.4





#92
 Benzo(g,h,i)perylene
 Concen: 37.684 ng
 RT: 17.756 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BF132793.D
 Acq: 14 Mar 2023 23:06

Instrument :
 BNA_F
 ClientSampleId :
 UNION-1

Tgt Ion:276 Resp: 798584
 Ion Ratio Lower Upper
 276 100
 277 24.5 18.9 28.3
 138 22.1 16.2 24.4

